

LUCAS LASHER

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Mechanical Engineering

Graduation: December 2020

Cumulative GPA: 3.37/4.00

Master of Engineering in Mechanical Engineering

Graduation: May 2022

PROFESSIONAL EXPERIENCE

University Housing, University of Illinois

Urbana, Illinois

Resident Advisor

Fall 2017 – Fall 2020

- Apply an educational approach to assist residents in shaping their individual interpretations of success
- Respond in events of life safety, crisis, and other emergencies or significant campus events
- Address the unique needs of underrepresented, international, and individual students and successfully incorporate these students into the residence hall and university communities

Chevron Phillips Chemical

Houston, Texas

Mechanical Engineering Intern

Summer 2020

- Introduced mechanical reliability strategies as site transitioned from reactive to proactive maintenance philosophy
- Enacted increased visibility of spare parts and put forth recommendations for smarter equipment maintenance
- Supported additional projects encompassing site-wide initiatives in weld compliance, maintenance quality measures, and various equipment improvements

Illinois Business Consulting

Champaign, Illinois

Consultant

Fall 2019 – Spring 2020

- Investigated organizational causes of ineffective risk and issue management for national weapons researcher
- Explored and identified key avenues of new monetization for electronics supplier operating in supply chain SaaS and DaaS spaces

LyondellBasell

Morris, Illinois | Houston, Texas

Maintenance and Reliability Co-op II, III

Fall 2018, Summer 2019

- Planned and implemented Management of Change scopes to extruder cooling systems and die plates to reduce equipment shutdown frequency
- Investigated root causes responsible for reoccurring failure modes in centrifugal pumps
- Established scope of construction of lifting structure to serve high-load hoist equipment

Caterpillar

Champaign, Illinois

Statistical Tolerance Analysis (STA) Intern

Summer 2018

- Applied tolerance analysis methods and GD&T standards to identify potential assembly fit-up risks on heavy earthmovers
- Prepared STA simulations (*Siemens Visualization Mockup*) to predict real-world assembly failures according to three-sigma metrics
- Presented project reports to customers outlining tolerance analysis results and recommended solutions